



State of Utah

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MEMORANDUM

RECEIVED

APR - 8 2005

DIV OF OIL GAS & MINING

TO: Daron Haddock
FROM: Bryce Tripp
DATE: 04/07/2005

SUBJECT: Geologic setting of the Point of the Mountain mineral extraction operation.

At the request of the Utah Division of Oil, Gas and Mining (DOGM), I accompanied DOGM inspectors to the Point of the Mountain operation to provide a second opinion about the geologic nature of the material being mined. A brief description of the field investigation and my observations follows:

Point of the Mountain Pit - On March 17, 2005, I accompanied Doug Jensen to the Point of the Mountain Pit in section 23 and 24, T. 4 S., R. 1 W. on the Jordan Narrows 7.5' topographic map. A drive-through inspection of the pit, following a Geneva employee, revealed that while sand and gravel production continues, the operator is starting to mine significant quantities of bedrock from a couple of working faces. The bedrock is highly brecciated quartzite of the Pennsylvanian Oquirrh Group (Biek, 2003). The quartzite being mined is not "rock aggregate"; it represents the start of the consolidated bedrock of the Traverse Mountains. As mining continues to the east, the operation will not encounter any more sand and gravel, it will be entirely in bedrock.

Reference - Biek, R.F., 2003, Interim geologic map of the Jordan Narrows quadrangle, Salt Lake and Utah Counties, Utah: Utah Geological Survey Open-File Report 415, scale 1:24,000.

